

Summary

Preparation of quarternary cationic tensides and their evaluation.

Lenka Slavětinská

This thesis was focused on a synthesis of three homological series of tensides. The analogues of *N*-phenylethyl-*N,N*-dimethyl-*N*-alkylammoniumbromide; 3-hydroxy-1-alkylpyridiniumbromide and 4-hydroxyiminomethyl-1-alkylpyridiniumbromide were prepared. All prepared structures were confirmed by the NMR, EA and ESI-MS analysis. Their critical micellar concentration (CMC) was measured by conductometry and the reduced CMC with increasing alkyl chain was proved. The concentration scale for the measurement of micellar catalysis of *p*-nitrophenylcaprylate and *p*-nitrophenylcaprate was based on CMC outcomes. Only more lipophilic tensides were used, because their higher reactivity with chosen substrates was expected.